Hometronic
INSTALLATION AND OPERATING INSTRUCTIONS HD 30
DIMMER CONTROL MODULE

DESCRIPTION

The HD 30 is a dimmer for electric light bulbs and for high- and low-voltage HV halogen lamps with an inductive iron-core transformer. It is used in conjunction with the HCM 200 **Home**tronic Manager in a **Home**tronic system.

The HD 30 is intended to be surface-mounted on a flush-mounted distribution box. There is no need to change the existing electrical wiring system.

You can adjust the brightness of the connected electric lights not only with the existing light switches but also independently of the wiring via the HCM 200 **Home**tronic Manager. With the HCM 200 you can also control the brightness of the lights by means of a timing program or a 'life-style' program.

At the HCM 200 you can activate the HD 30's operating mode 'At-home simulation'. The HD 30 will then switch the connected lights on or off, or dim them, while you are away from the house, for example. The HD 30 actually repeats all of the commands you input into the HD 30 over the preceding 72 hours. In contrast to randomly-controlled systems the lights will not be switched on or off at unusual times of day or night.

OPERATING CONDITIONS

Power consumption of the lights	60 VA - 300 VA ohmic or inductive load
Operational voltage:	230 V AC
Operating temperature:	0 – 40 °C
Storage temperature	–20 to +70 °C
Maximum air humidity	95% (non-condensing)

READY IN 4 STEPS...

It will not take you long to install the HD 30. The following steps summarize what you need to do:

1. You lay the cables to the HD 30.
2. You connect in parallel one or more switches and light fittings to the HD 30 and then connect the HD 30 to the power supply.
3. You run the communications test in order to make it possible for the HD 30 and the HCM 200 to communicate with each other.
4. You mount the unit base of the HD 30 on a flush-mounted distribution box and close the housing. You're ready!

INSTALLATION

Note

The HD 30 is equipped with a radio receiver which can be adversely affected by the presence of metal objects. This means that its may not receive signals properly. For this reason, when you are selecting a suitable location to install your HD 30, make sure it is installed at a sufficient distance from metal objects, such as concrete reinforcement steel, metal mesh and so on.

YOUR SAFETY

DANGER:

Mortal danger from electric shock !

During installation of the cabling system for the HD 30, electrical contacts carrying power will be exposed. Touching a live contact may cause fatal injury.

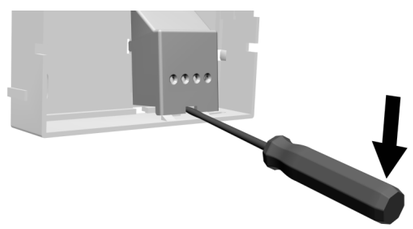
1. Have all work carried out only by authorized technicians.
2. Any time work is being carried out on the HD 30, switch off the corresponding line fuse.

1. LAY THE CABLES

The HD 30 is intended to be surface-mounted on a flush-mounted distribution box. All of the cables from the lights and the light switches come together in the flush-mounted distribution box.

1. Extend the cables or shorten them so that they stick out of the distribution box by at least 10 cm.
2. Remove the unit's cover.

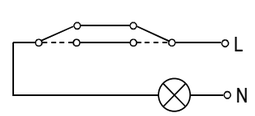
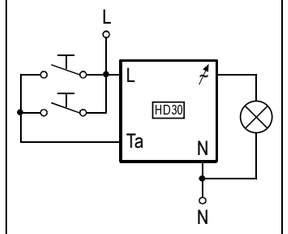
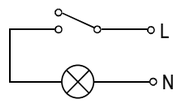
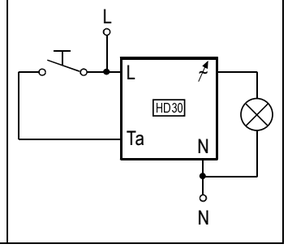
3. Use a small screwdriver to lever off the cover of the contacts.



4. Guide all of the cables through the openings in the base of the unit.

2. CONNECT THE LIGHT SWITCHES AND THE LIGHTS

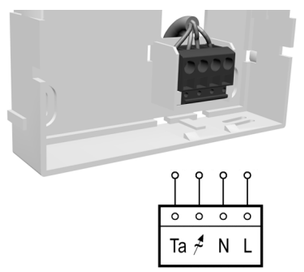
The following table uses pairs of circuit diagrams to show how you can add the HD 30 dimmer to an existing circuit. In the more detailed description of installing the dimmer we will return to the letters used to identify the various connections.

Existing wiring	Wiring with an HD 30 added
with two-way switch 	
with on/off switch 	

To adjust the brightness manually you will require standard light switches. The switches must be rated for 230 V and comply with VDE guidelines.

With the HD 30 you can also install several lights connected in parallel. However the total power consumed by the lights must not exceed 300 VA. Furthermore, you can also connect up several light switches to the HD 30. These switches must also be connected in parallel at the HD 30.

1. Replace your old switches with the new switches described above in order to prevent any malfunctioning due to erosion of contacts.
2. Connect the lights and switches to the right-hand insulating terminal in the housing base as shown in the following diagram.



3. Fix the housing base provisionally in the place where you intend to mount the dimmer in order to be able to make any small adjustments which may be necessary.

3. CARRY OUT THE COMMUNICATIONS TEST

The HD 30 will not be able to communicate with the HCM 200 until the communications test has been conducted. During the communications test the HCM 200 and the HD 30 exchange data in order to identify themselves to each other.

If you are not yet familiar with operating the HCM 200 **Home**tronic Manager be sure to read the section 'Example: Setting the date and time' in the operating instructions for the **Home**tronic Manager. You will need to be acquainted with the information provided in this section dealing with operating the **Home**tronic Manager before you can run a successful communications test.

Note

The communications test phase will be active for no more than 3 minutes. Afterwards the HD 30 changes back to its normal operating mode. Read through the following steps first to familiarize yourself with what you have to do.

Activate communications testing mode at the HD 30

Hold one of push-button switches down for about 20 seconds until the HD 30 has set itself to constant half-brightness.

Activate communications testing mode at the Hometronic Manager

1. At the **Home**tronic Manager menu call up 'Settings'. The following message will appear in the display of the **Home**tronic Manager:

```
Installation
De-installation
Brightness function
Daylight saving time
```

2. In the 'Installation' menu select the menu item ' Lighting'.

```
Heating
Shutters
Lighting
Sensors
```

3. In the 'Lighting' menu select the appropriate module (for example, Module 1).

```
Module 1              *
Module 2
Module 3
Module 4
```

The module you selected is now marked with the symbol * and has now been activated for the communications test. If you select the module name again the communications test will be repeated.

The **Home**tronic Manager and the HD 30 are now in communications testing mode and are attempting to exchange data. The communications testing phase should not take more than 3 minutes. Afterwards the HD 30 changes back to its normal operating mode.

The communications test has been completed successfully once the HD 30 has reached its maximum brightness again.

4. If the HD 30 reduces the brightness down to about 30 %:

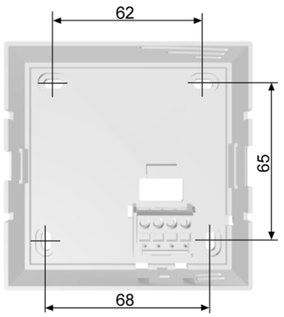
   - Improve the data transmission.
   - Repeat the communications test.

Improving data transmission

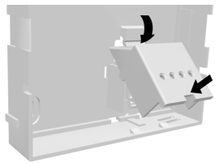
1. Prevent interference from, for example,:
   - cordless headphones or loudspeakers
   - garage door openers
   - remote control units
2. Prevent screening effects from, for example:
   - noise sources in the vicinity
   - metal objects
3. Correct the position of the HD 30 at its place of installation.

4. FASTEN AND CLOSE THE HOUSING

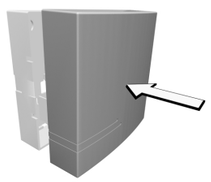
1. Screw the housing base onto the flush-mounting distribution box.



2. Clip the contacts cover into the housing base.



3. Slide the housing cover onto the housing base and click in place.



OPERATION

CHANGING THE BRIGHTNESS MANUALLY

Use the light switches to adjust the brightness of the lights on the spot manually:

State before	Duration and type of action	State afterwards
Light off (0 %)	Touch briefly	Light on
	Press for longer than ½ second	The light is made brighter
Light on (100 %)	Touch briefly	Light off
	Press for longer than ½ second	The light is dimmed
Light dimmed (1-99 %)	Touch briefly	Light goes out if the last action was to turn it brighter. Light comes on if the last action was to dim it.
	Press for longer than ½ second	The brightness of the light is changed. Each time this action is repeated the HD 30 changes its direction (darker / brighter).

If you keep a switch hold down and the HD 30 reaches the maximum or minimum brightness the HD 30 will begin to change the brightness in the reverse direction.

CHANGING THE BRIGHTNESS BY REMOTE CONTROL

You can set up timing programs and 'life-styles' for controlling the brightness at the Hometronic Manager. In this connection you should read the section 'Changing timing programs' in the operating instructions for the HCM 200 **Home**tronic Manager.

Remote control via the HCM 200 will not function until you have carried out a successful communications test.

AT-HOME SIMULATION

In the 'At-home simulation' operating mode the HCM 200 repeats the entire sequence of lighting changes of the previous 72 hours. This means that in contrast to randomly-controlled systems the HCM 200 will not switch the lights on or off at unusual times of day or night.

In this connection you should read 'At-home simulation' in the 'Operation' section of the operating instructions for the HCM 200 **Home**tronic Manager.

CHANGING THE FUSE

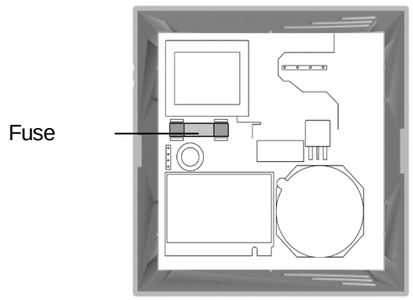
DANGER:

Mortal danger from electric shock !

When the contact covers are open, electrical contacts carrying power will be exposed. Touching a live contact may cause fatal injury.

1. Switch off the corresponding fuse.
2. Make sure that the contacts cover is closed.

1. Remove the housing cover.
2. Remove the defective fuse.



3. Insert a new fuse (1.5 A, slow-blow).
4. Replace the housing cover and click in place.

TROUBLE-SHOOTING

FAULTS

Problem	Cause	Remedy
The communications test failed	Radio communication suffering from interference	See 'Improving data transmission'
No control by **Home**tronic Manager	Radio communication suffering from interference	See 'Improving data transmission'
Can't switch the light on	Overload protection activated. The total power consumed by the connected lights exceeds 300 VA	Disconnect one or more lights. Use lights which consumer less power
The light is changing its brightness without being asked to or is switching itself on or off independently	At-home simulation is active	Disable at-home simulation at the HCM 200

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Honeywell

Please direct questions or suggestions you may have to the following address:

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